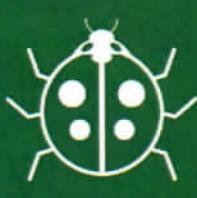


PROGRAM & ABSTRACT BOOK



“Eco-farming in Managing Global Change”

Yogyakarta (Indonesia), January 17-18, 2017



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International Conference on Sustainable Agriculture

2017

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Scope:

From Prambanan

Waste Management

Moderator: Dr. Ir. Indira Prabasari, M.P

Author	Presentation Title	Time
Azhar	Solid Waste Management Policy in Indonesia	14.50 - 15.00
Shampazuraini	Utilization of Agricultural Wastes for the Growth Performance of Oil Palm (<i>Elaeis guineensis</i>) Seedlings in Pre-Nursery Stage	15.00 - 15.10
Samsuri	The Relationship between Economic Growth and Municipal Solid Waste in Thailand: Environmental Kuznets Curve Hypothesis Analysis	15.10 - 15.20
Chira Bureecam	Palm Oil Mill Effluent Effects on Nutrients Availability, Uptake and Growth of Palm Oil Seedlings (<i>Elaeis guinensis</i> Jaq.)	15.20 - 15.30
Nenny Nurlaeny	Palm Oil Waste (Solid) Utilization to Substitute Chemical Fertilizer and it's Effect on Paddy Yield	15.30 - 15.40
Made Deviani Duaja	Effect of Fresh and Composted organic Waste as Fertilizer to Growth and Yield of Okra Agustina	15.50 - 16.00
Panel Discussion		16.00 - 16.10
Trisha A. Toop	Challenges to the Use of Macroalgae as Sustainable Bioenergy Feedstock	16.10 - 16.20
Ratih Restiani	Characterization of Crude Bromelain from Pineapple Core (<i>Ananas comosus</i>)	16.20 - 16.30
Muhamad Yazid	Households' food waste and its affecting factors: A preliminary analysis in Palembang	16.30 - 16.40
Dharell Bandarlipa Siano	Processing and Economic Analysis of Rain Tree (<i>Samanea saman</i>) Pods for Village Level Hydrous Bloethanol Production	16.40 - 16.50
Enggar Apriyanto	The Litterfall Production and Decomposition on Three Types of Land Use in Bengkulu Protection Forest	16.50 - 17.00
Sandi Gunawan	Implementation of Sugarcane Trash Management on Ratoon Cane at Jengkol Sugarcane Plantation, Pesantren Baru Sugar Mill	17.00 - 17.10
Panel Discussion		17.10 - 17.20

Oral Presentaion

Made Deviani Duaja* Elis Kartika and Buhaira

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ABSTRACT

One effort to strike a balance between low production and spending on chemical fertilizers on paddy by applying biological fertilizer by utilizing palm oil mills waste (solid), treated biologically with composer into compost solid for substituting chemical fertilizers. The aim of this paper is to examine the effect of biology fertilizer on paddy productio. The study was conducted in Batang Asam Districts. It is used a randomized complete block design with one factor of combination of chemical fertilizers + solid compost based on 4 replications: The treatments of Chemical fertilizers NPK 100 % (control dosage recommendation), solid compost 15 ton/ha, solid compost 20 ton/ha, solid compost 15 ton/ha+75% NPK (dosage recommendation), solid compost 20 ton/ha+75% NPK (dosage recommendation), solid compost 15 ton/ha+ 50% NPK (dosage recommendation), 20 ton/ha+50% NPK (dosage recommendation). Result showed that grain yield is significantly increased where the maximum grain was found in combination of 20 ton/ha solid compost+50% NPK dosage. Grain yield increase at the above treatment was mentioned may due to increase of 1000 seed weight, panicle number, number of fertlie tiller, flag leaf length, number of spikelet per panicle.

Keywords: Compost, Decanter solid, Oil palm, Rice

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ABSTRACT

Processing of home organic waste at city waste area that usually held is by composting firstly in a container. Disadvantages of this technique is needing space area, composting process costs, and labor. Other alternative as a solution is by directly sinking organic waste into soil. The purpose of this research was to study okra plant growth and yield using organic waste as fertilizer in fresh and composted forms. The research was conducted at the Green House, from April to October 2008, using complete Random Block Design. Data was analyzed by F test 0.05 if there is a real difference then continue with Duncan test 5%. The results showing N mineralization age 60 days after planting were significantly different among all treatments, in order from highest to lowest, inorganic fresh Organic Waste (OW) composted OW + manure fresh OW + biofertilizer composted OW composted OW + manure + biofertilizer fresh OW + manure + biofertilizer composted OW + biofertilizer. Observation of the leaf area, plant dry weight and fresh weight of pods per hectare was not significantly different among all treatments, concluding that sinking organic waste to soil is an efficient alternative.

Keywords: Organic waste, Compost, Okra



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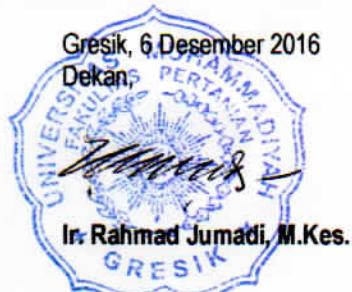
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N.I.P : 196605291993031002
Jabatan : Dekan Fakultas Pertanian
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Tujuan : Universitas Muhammadiyah Yogyakarta
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Waktu : 17 – 18 Januari 2017

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Oral Presenter

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"Eco-farming in Managing Global Change"

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